

## PCT REQUEST

Original (for SUBMISSION) - printed on 04.08.2003 11:19:07 AM

0	For receiving Office use only
0-1	International Application No.
0-2	International Filing Date
0-3	Name of receiving Office and "PCT International Application"

JAN 2005

0-4	Form - PCT/RO/101 PCT Request	PCT-EASY Version 2.92 (updated 01.04.2003)
0-4-1	Prepared using	
0-5	Petition The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty	
0-6	Receiving Office (specified by the applicant)	United States Patent and Trademark Office (USPTO) (ROjUS)
0-7	Applicant's or agent's file reference	PU4870WO
I	Title of invention	THIOPHENE COMPOUNDS
II	Applicant	applicant only all designated States except US SMITHKLINE BEECHAM CORPORATION One Franklin Plaza Philadelphia, PA 19101 United States of America US US 919-483-2370 919-483-7988
11-1	This person is:	
11-2	Applicant for	
11-4	Name	
11-5	Address:	
11-6	State of nationality	
11-7	State of residence	
11-8	Telephone No.	
11-9	Facsimile No.	
111-1	Applicant and/or inventor	applicant and inventor US only ANDREWS, III, Clarence, W GlaxoSmithKline Five Moore Drive PO Box 13398 Research Triangle Park, NC 27709 United States of America US US
111-1-1	This person is:	
111-1-2	Applicant for	
111-1-4	Name (LAST, First)	
111-1-5	Address:	
111-1-6	State of nationality	
111-1-7	State of residence	

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111-2	Applicant and/or inventor	
111-2-1	This person is:	applicant and inventor US
111-2-2	Applicant for	only
111-2-4	Name (LAST, First)	CHEUNG, Mui GlaxoSmithKline
111-2-5	Address:	Five Moore Drive PO Box 13398 Research Triangle Park, NC United States of America CN 27709 US
111-2-6	State of nationality	
111-2-7	State of residence	
111-3	Applicant and/or inventor	
111-3-1	This person is:	applicant and inventor US
111-3-2	Applicant for	only
111-3-4	Name (LAST, First)	DAVIS-WARD, Ronda, G
111-3-5	Address:	GlaxoSmithKline Five Moore Drive PO Box 13398 Research Triangle Park, NC 27709 United States of America US US
111-3-6	State of nationality	
111-3-7	State of residence	
111-4	Applicant and/or inventor	
111-4-1	This person is:	applicant and inventor US
111-4-2	Applicant for	only
111-4-4	Name (LAST, First)	DREWRY, David, Harold
111-4-5	Address:	GlaxoSmithKline Five Moore Drive PO Box 13398 Research Triangle Park, NC 27709 United States of America US US
111-4-6	State of nationality	
111-4-7	State of residence	
111-5	Applicant and/or inventor	
111-5-1	This person is:	applicant and inventor US
111-5-2	Applicant for	only
111-5-4	Name (LAST, First)	EMMITTE, Kyle, Allen
111-5-5	Address:	GlaxoSmithKline Five Moore Drive PO Box 13398 Research Triangle Park, NC 27709 United States of America US US
111-5-6	State of nationality	
111-5-7	State of residence	

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111-6	Applicant and/or inventor	
111-6-1	This person is:	applicant and inventor US
111-6-2	Applicant for	only
111-6-4	Name (LAST, First)	HUBBARD, Robert, Dale
111-6-5	Address:	GlaxoSmithKline Five Moore Drive PO Box 13398 Research Triangle Park, NC 27709 United States of America US
111-6-6	State of nationality	
111-6-7	State of residence	
111-7	Applicant and/or inventor	
111-7-1	This person is:	applicant and inventor US
111-7-2	Applicant for	only
111-7-4	Name (LAST, First)	KUNTZ, Kevin, W
111-7-5	Address:	GlaxoSmithKline Five Moore Drive PO Box 13398 Research Triangle Park, NC 27709 United States of America US
111-7-6	State of nationality	
111-7-7	State of residence	
111-8	Applicant and/or inventor	
111-8-1	This person is:	applicant and inventor US
111-8-2	Applicant for	only
111-8-4	Name (LAST, First)	LINN, James, Andrew
111-8-5	Address:	GlaxoSmithKline Five Moore Drive PO Box 13398 Research Triangle Park, NC 27709 United States of America US
111-8-6	State of nationality	
111-8-7	State of residence	
111-9	Applicant and/or inventor	
111-9-1	This person is:	applicant and inventor
111-9-2	Applicant for	US only
111-9-4	Name (LAST, First)	MOOK, Robert, Anthony
111-9-5	Address:	GlaxoSmithKline Five Moore Drive PO Box 13398 Research Triangle Park, NC 27709 United States of America US
111-9-6	State of nationality	
111-9-7	State of residence	

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111-10	Applicant and/or inventor	
111-10-1	This person is:	applicant and inventor US
111-10-2	Applicant for	only
111-10-4	Name (LAST, First)	SMITH, Gary, Keith
111-10-5	Address:	GlaxoSmithKline Five Moore Drive PO Box 13398 Research Triangle Park, NC 27709 United States of America US
111-10-6	State of nationality	US
111-10-7	State of residence	
111-11	Applicant and/or inventor	
111-11-1	This person is:	applicant and inventor US
111-11-2	Applicant for	only
111-11-4	Name (LAST, First)	VEAL, James, Marvin
111-11-5	Address:	8916 Weaver Crossing Road Apex, NC 27502 United States of America US
111-11-6	State of nationality	US
111-11-7	State of residence	
IV-1	Agent or common representative; or address for correspondence The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as: Name (LAST, First)	agent
IV-1-1	Address:	LEVY, David, J GlaxoSmithKline Five Moore Drive PO Box 13398 Research Triangle Park, NC 27709 United States of America
IV-1-2		919-483-2370
IV-1-3	Telephone No.	919-483-7988
IV-1-4	Facsimile No.	
IV-2	Additional agent(s)	additional agent(s) with same address as first named agent
IV-2-1	Name(s)	MORGAN, Lorie, Ann

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V Designation of StatesV-1 Regional Patent  
(other kinds of protection or treatment, if  
any, are specified between parentheses  
after the designation(s) concerned)

AP: GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW and  
any other State which is a Contracting State  
of the Harare Protocol and of the PCT  
EA: AM AZ BY KG KZ MD RU TJ TM and any other  
State which is a Contracting State of the  
Eurasian Patent Convention and of the PCT  
EP: AT BE BG CH&LI CY CZ DE DK EE ES FI FR GB  
GR HU IE IT LU MC NL PT RO SE SI SK TR and any  
other State which is a Contracting State of  
the European Patent Convention and of the PCT  
OA: BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN  
TD TG and any other State which is a member  
State of OAPI and a Contracting State of the  
PCT

V-2 National Patent  
(other kinds of protection or treatment, if  
any, are specified between parentheses  
after the designation(s) concerned)

AE AG AL AM AT AU AZ BA BB  
CA CH&LI CN CO CR CU CZ DE  
EE ES FI GB GD GE GH GM HR  
IS JP KE KG KP KR KZ LC LK LV<sub>BG</sub> BR BY BZ  
MA MD MG MK MN MW MX MZ PG PH<sub>DK</sub> DM DZ EC  
PL PT RO RU SC SD SE TJ TM TN<sub>HU</sub> ID IL IN LR  
TR TT TZ UA UG US ZA ZM ZW LS LT LU NI NO  
NZ OM SG SK SL  
SY UZ VC VN YU

## V-5 Precautionary Designation Statement

In addition to the designations made  
under items V-1, V-2 and V-3, the  
applicant also makes under Rule 4.9(b)  
all designations which would be  
permitted under the PCT except any  
designation(s) of the State(s) indicated  
under item V-6 below. The applicant  
declares that those additional  
designations are subject to confirmation  
and that any designation which is not  
confirmed before the expiration of 15  
months from the priority date is to be  
regarded as withdrawn by the applicant

V-6 at the expiration of that time limit.

Exclusion(s) from precautionary

NONE

VI-1 designationsPriority claim of earlier national application  
Filing date

VI-1-1

08 August 2002 (08.08.2002)

VI-1-2

Number

60/402,008

VI-1-3

Country

US

VI-2	Priority document required The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s):	VI-1 6/7 Original (for SUBMISSION) - printed on 04.08.2003 11:19:07 AM	PU4870WO
VII-1	International Searching Authority Chosen	European Patent Office (EPO) (ISA/EP)	
VIII	Declarations	Number of declarations	
VIII-1	Declaration as to the identity of the inventor	-	
VIII-2	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent	-	
VIII-3	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application	-	
VII 1-4	Declaration of inventorship (only for the purposes of the designation of the United States of America)	-	
VIII-5	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	-	
IX	Check list	number of sheets	electronic file(s) attached
IX-1	Request (including declaration sheets)	7	-
IX-2	Description (excluding sequence listing part)	217	-
IX-3	Claims	11	-
IX-4	Abstract	1	EZABSTOO.TXT
IX-5	Drawings	0	-
IX-7a	Sub-total number of sheets	236	
IX-6	Sequence listing part of description	1	-
IX-7	TOTAL	237	
	Accompanying items	paper document(s) attached	electronic file(s) attached
IX-8	Fee calculation sheet	./	-
IX-11	Copy of general power of attorney	reference no. SKB	-
IX-12	Statement explaining lack of signature	./	-
IX-16	Sequence listing in computer readable form:		
IX-16 -(i)	copy submitted for the purposes of international search under Rule Bter only (and not as part of the international application)	-	1Diskette
IX-17	PCT-EASY diskette	-	Diskette
IX-18	Other (specified):	Copy of POA authorizing D. Levy signature	-
IX-19	Figure of the drawings which should accompany the abstract		
IX-20	Language of filing of the	English	

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X-1 Signature of applicant, agent or  
common representative

X-1-1 Name (LAST, First)

MORGAN, Lorie, Ann

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10-1	Date of actual receipt of the purported international application	
10-2	Drawings:	
10-2-1	Received	
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application	
10-4	Date of timely receipt of the required corrections under PCT Article 11 (2)	
10-5	International Searching Authority	ISA/EP
10-6	Transmittal of search copy delayed until search fee is paid	

FOR INTERNATIONAL BUREAU USE ONLY

11-1 Date of receipt of the record copy by  
the International Bureau